CERTIFICATE OF MAILING

I hereby certify that this paper and every paper referred to therein as being enclosed is being deposited with the U.S. Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner of Patents & Trademarks, Washington, DC 20231, on Coate of Deposit)



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 98,736-A)

In re Application of:)	
Roderick Hall, et al.)	
Serial No.: 09/441,966)	Examiner: TBA
Filed:	November 17, 1999)	Art Unit: 1652
For:	A METHOD FOR ACCELERATING THE RATE OF MUCOCILIARY CLEARANCE))	
A cciet	ant Commissioner for Patents		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Washington, D.C. 20231

In order to comply with discretionary regulations 37 CFR 1.97 and 1.98, attached hereto is Form PTO-1449, copies¹ of the documents listed thereon pursuant to 37 C.F.R. § 1.97(c). These

¹To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the file of a parent application. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated therebetween; if no such English language equivalent is cited, then none is known to the undersigned.



documents contain information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent.

- 1. U.S. Patent No. 5,731,412, Shimomura, et al., issued March 24, 1998.
- 2. U.S. Patent No. 5,854,396, Shimomura, et al., issued December 29, 1998.
- 3. Newton, B.B. and Hall, R.L., "Mucociliary Clearance in the Guinea-Pig is Increased By Ouabain (i.v.) and By Hypertonic Saline (14.4%) Aerosol," *Cilia, Mucus and Mucociliary Interactions* Ed. Baum, G.L., Priel, Z., Roth, Y., Liron, N., Ostfeld, E., Marcel Dekker. New York. 1998.
- 4. Wills, P.J., et al, "The Ciliary Transportability of Sputum is Slow on the Mucus-Depleted Bovine Trachea," *American Journal of Respiratory & Critical Care Medicine* 151(4):1255-1258, 1995.
- 5. Wills, P.J., et al, "Sodium Chloride Increases the Ciliary Transportability of Cystic Fibrosis and Bronchiectasis Sputum on the Mucus-Depleted Bovine Trachea," *Journal of Clinical Investigation* 97(11):9-13, 1997.
- 6. Mathews, L.W., et al, "Studies on Pulmonary Secretions I: The Overall Chemical Composition of Pulmonary Secretions from Patients with Cystic Fibrosis, Bronchiectasis, and Laryngectomy," *American Review of Respiratory Disease* 88:199-204, 1963.
- 7. Potter, J.L., et al, "Studies on Pulmonary Secretions II: Osmolality and the Ionic Environment of Pulmonary Secretions from Patients with Cystic Fibrosis, Bronchiectasis, and Laryngectomy," *American Review of Respiratory Disease* 67(1):83-87, 1967.
- 8. Tomkiewicz, R.P., et al, "Amiloride Inhalation Therapy in Cystic Fibrosis: Influence on Ion Content, Hydration, and Rheology of Sputum," *American Review of Respiratory Disease* 148(4 Pt 1):1002-1007, 1993.
- 9. Robinson, M., et al, "Effect of Increasing Doses of Hypertonic Saline on Mucociliary Clearance in Patients with Cystic Fibrosis," *Thorax* 52(10):900-903, 1997.
- 10. App, E.M., et al, "Acute and Long-Term Amiloride Inhalation in Cystic Fibrosis Lung Disease, A Rational Approach to Cystic Fibrosis Therapy," *American Review of Respiratory Disease* 141, 605-612.
- 11. Newton, B.B., et al, "Inhalation of Amiloride Increases Tracheal Mucus Velocity and Decreases Tracheal Potential Difference in the Guinea-Pig," *Pediatric Pulmonology* S17, Abs 364, 1998.

- 12. McAulay, A.E., et al, "Effect of UTP on Ion Transport in Tertiary Cultures of Human Bronchial Epithelial (HBE) Cells," *Pediatric Pulmonology* S 17, Abs 141, 1998.
- 13. Vallet, V., et al, "An Epithelial Serine Protease Activates the Amiloride-Sensitive Sodium Channel," *Nature* 389(6651):607-610, 1997.
- 14. Chraibi, A., et al, "Protease Modulation of the Activity of the Epithelial Sodium Channel Expressed in Xenopus Oocytes," *Journal of General Physiology* 111(l): 127-13 8, 1998.
- 15. Delaria, K.A., et al, "Characterization of Placental Bikunin, a Novel Serine Protease Inhibitor," *Journal of Biological Chemistry* 272(18):12209-12214, 1997.
- 16. Marlor, C.W., et al, "Identification and Cloning of Human Placental Bikunin, a Novel Serine Protease Inhibitor Containing Two Kunitz Domains," *Journal of Biological Chemistry* 272(18):12202-12208, 1997.
- 17. O'Riordan, T.G., et al, "Elastase Contributes to Antigen-Induced Mucociliary Dysfunction in Bovine Airways," *American Journal of Respiratory & Critical Care Medicine* 97(5):1522-1528, 1997.
- 18. O'Riordan, T.G., et al, "Budesonide Affects Allergic Mucociliary Dysfunction," *Journal of Applied Physiology* 85(3):1086-1091, 1998.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

The present Disclosure Statement is being submitted in compliance with 37 CFR 1.56

insofar as an Examiner might consider any of the cited documents important in deciding whether to

allow the application to issue as a patent, but the citation of each document is not to be construed as

an admission that such document is necessarily relevant or prior art. No representation is intended

that the cited documents represent the results of a complete search, and it is anticipated that the

Examiner, in the normal course of examination, will make an independent search and will

determine the best prior art consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each

search, will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Data:

By: _____

Reg. No. 35,285

Respectfully submitted,

McDONNELL BOEHNEN HULBERT & BERGHOFF 300 South Wacker Drive, Suite 3200

Chicago, Illinois 60606

Phone: 312/913-0001; Fax: 312/912-0002

AP 1652

PATENT

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CLEARANCE

Assistant Commissioner for Patents Washington, D.C. 20231

PED 1 0 2000)

Examiner: TBA

Art Unit: 1652

10-3

TRANSMITTAL LETTER

In regard to the above identified application:

- 1. We are transmitting herewith the attached:
 - a) Supplemental Information Disclosure Statement
 - b) U.S. PTO Form 1449 and copies of 18 references
 - c) Return Receipt Postcard
- 2. With respect to additional fees:

No fee is required.

- 3. <u>GENERAL AUTHORIZATION</u>: Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
- 4. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Asst. Commissioner for Patents, Washington, D.C. 20231 on this day of February, 2000.

Dotad: 21-

By:

Emily Miao

Reg. No. 35,285

McDONNELL BOEHNEN HULBERT & BERGHOFF 300 South Wacker Drive Chicago, Illinois 60606

Telephone (312) 913-0001; Fax (312) 913-0002